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APPLICATION N	iO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/701,853		11/05/2003	Mark Duane Foster	2003-0420.01	7794	
21972	7590	06/01/2005		EXAM	EXAMINER	
		RNATIONAL, INC	ROYER, WILLIAM J			
		RCLE ROAD	PARTMENT	ART UNIT	PAPER NUMBER	
BLDG. 0				2852		
LEXING	TON, KY	40550-0999	DATE MAILED: 06/01/2005			

Please find below and/or attached an Office communication concerning this application or proceeding.

				XI				
		Application No.	Applicant(s)					
		10/701,853	FOSTER ET AL.					
	Office Action Summary	Examiner	Art Unit					
	-	William J. Royer	2852					
Period fo	The MAILING DATE of this communication apport	<u> </u>		dress				
A SH THE - Exter after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPL' MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.15 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply of period for reply is specified above, the maximum statutory period of the to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tin y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	nely filed s will be considered timel the mailing date of this co D (35 U.S.C. § 133).					
Status								
1)	Responsive to communication(s) filed on							
2a) <u></u> ☐	This action is FINAL . 2b)⊠ This	action is non-final.						
3)🖂	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.					
Dispositi	ion of Claims							
4)⊠	Claim(s) 1 and 2 is/are pending in the application	ion.						
	4a) Of the above claim(s) is/are withdraw	wn from consideration.						
5)⊠	Claim(s) <u>1 and 2</u> is/are allowed.							
6)[_	Claim(s) is/are rejected.							
·	Claim(s) is/are objected to.							
8)	Claim(s) are subject to restriction and/o	r election requirement.						
Applicati	ion Papers							
=	The specification is objected to by the Examine							
10)⊠	☑ The drawing(s) filed on <u>05 November 2003</u> is/are: a)☑ accepted or b)☐ objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)	The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form P1	O-152.				
Priority u	ınder 35 U.S.C. § 119							
	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document: 2. Certified copies of the priority document: 3. Copies of the certified copies of the priority document: application from the International Bureau	s have been received. s have been received in Applicati rity documents have been receive	on No	Stage				
* S	See the attached detailed Office action for a list	of the certified copies not receive	ed.					
Attachmen		,, -						
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4) ∐ Interview Summary Paper No(s)/Mail Da						
3) 🛛 Inforr	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date <u>11052003</u> .	5) Notice of Informal P 6) Other:		D-152)				

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This application is in condition for allowance except for the following formal matters:

Specification

The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

The disclosure is objected to because of the following informalities:

On page 1, line 9, change "drum" to --- photoconductor roller ---.

On page 1, line 20, change "drum" to --- roller ---.

On page 2, line 21, change "is a is a" to --- is a ---.

On page 2, lines 23-24, change "the developer roller seal, the developer roller, and the photoconductor drum, cross-sectioned through the seal" to --- a developer roller seal, a developer roller, and a photoconductor roller, cross-sectioned through a seal ---.

On page 3, line 2, after "under" insert --- the ---.

On page 3, line 12, change "seal has" to --- the seal has a ---.

On page 3, line 13, change "6,487,383" to --- 6,487,383 B2 ---.

On page 3, line 13, after "contacts" insert --- the ---.

On page 3, line 14, change "roller 5" to --- roller 5. ---.

On page 3, line 16, change "side" to --- curved portion ---.

On page 3, line 17, change "font" to --- front ---.

On page 3, line 22, change "backside" to --- back side ---.

On page 3, line 22, change "Frame" to --- The edge of frame ---.

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On page 4, line 14, change "two rollers 5 and 26" to --- developer roller 5 and photoconductor roller 26 ---.

On page 4, line 15, change "an" to --- as ---.

On page 4, line 15, change "two rollers 5 and" to --- developer roller 5 and photoconductor roller ---.

On page 4, lines 21 and 25, before "roller" insert --- developer ---.

On page 5, line 2, change "roller" to --- developer roller 5 ---.

On page 5, line 2, after "material" insert --- 5b ---.

On page 5, lines 6 and 8, before "roller" insert --- developer ---.

On page 5, line 6, change "a gap" to --- gaps 30a and 30b ---.

On page 5, lines 7, 14 and 17, after "core" insert --- material ---.

On page 5, line 8, change "location" to --- located ---.

On page 5, line 9, change "a gap is" to --- gaps 30a and 30b are ---.

On page 5, lines 9 and 10, change "the gap is" to --- gaps 30a and 30b are ---.

On page 5, line 11, change "body" to --- core material ---.

On page 5, line 13, after "gaps" insert --- 30a and 30b ---.

On page 5, line 14, change "a seal" to --- the seal ---.

On page 5, lines 14 and 16, after "Gaps" insert --- 30a and 30b ---.

On page 5, lines 19-20 should be rewritten in a more grammatically correct form.

On page 7, line 2, change "Developer" to --- A developer ---.

On page 7, line 4, before "roller" insert --- developer ---.

Appropriate correction is required.

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Claim Objections

Claims 1 and 2 are objected to because of the following informalities:

Claim 1, line 1, change "The method" to --- A method ---.

Claim 1, line 4, change "the step of" to --- the step of: ---.

Claim 1, line 5, after "photoconductor" insert --- roller ---.

Claim 2, line 1, change "the method" to --- A method ---.

Claim 2, line 4, change "the step of" to --- the step of: ---.

Claim 2, line 5, after "photoconductor" insert --- roller ---.

Appropriate correction is required.

Prosecution on the merits is closed in accordance with the practice under *Ex* parte Quayle, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO**MONTHS from the mailing date of this letter.

Allowable Subject Matter

Claims 1 and 2 are allowable over the prior art of record because the prior art of record fails to teach or suggest a method in which a developer roller is provided with a region or gap under a seal in order to reduce the stiffness under the seal so that significant frictional heat damage to toner which would occur without the region or gap which reduces stiffness does not occur.

Relevant Prior Art

The following prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Miyamoto et al disclose a developing apparatus having a coated developing roller with a sealing member provided at the end of the developing roller for preventing leakage of developer.

Uehara discloses a seal structure providing an improved sealing function and reducing an amount of heat generated by friction.

Dougherty discloses a system and method of reducing toner seal leakage by the introduction of a step groove in a developer roller.

Dougherty et al disclose a method and system for the reduction of toner pressure applied to a print seal through the implementation of a tapering channel.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to William J. Royer whose telephone number is (571) 272-2140. The examiner can normally be reached on Monday-Thursday and alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Arthur T. Grimley can be reached on (571) 272-2136. The fax phone

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number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

> William J. Royer Primary Examiner Art Unit 2852

William J. Royer

wjr May 31, 2005